



**SS-SP**

**SS4/LP-0E**

**Photo.M18,PNP-LO,M12 plug,Diffuse**

TECHNICAL FEATURES

Detection properties

|                          |         |
|--------------------------|---------|
| Nominal sensing distance | 200mm   |
| Thermal drift of Sr      | ≤10% Sr |
| Repeat Accuracy          | 5%      |
| Sensitivity adjustment   | Trimmer |

Application

|                    |                                             |
|--------------------|---------------------------------------------|
| Function Principle | Diffuse reflection (short distance, ≤200mm) |
| Notes              | white target Kodak 90% 100 x 100mm          |
| Optic position     | Axial                                       |

Outputs

|                     |         |
|---------------------|---------|
| Output type         | PNP Lon |
| Output Function     | Lon     |
| Switching frequency | 250Hz   |

|               |     |
|---------------|-----|
| Response time | 2ms |
|---------------|-----|

Electrical data

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| Operating Voltage                | 10...30VDC                                       |
| No-Load supply current           | ≤ 30mA                                           |
| Load current                     | ≤100mA                                           |
| Leakage current                  | ≤10μA                                            |
| Output voltage drop              | ≤1,2V@Iload=100mA                                |
| Max ripple content               | ≤10%                                             |
| LED indicators                   | Yellow (status output)                           |
| Time delay before availability   | ≤200ms                                           |
| Short-circuit protection         | Yes                                              |
| Reverse Polarity Protection      | Yes                                              |
| Emission                         | LED Infrared (880nm)                             |
| Interference to external light   | 3000lux (incandescent lamp), 10000lux (sunlight) |
| Impulsive Overvoltage Protection | Yes                                              |

Mechanical data

|                  |               |
|------------------|---------------|
| Housing material | PBT / PC plug |
| Connections      | M12 plug      |
|                  |               |

|                      |      |
|----------------------|------|
| Active Head Material | PMMA |
| Tightening torque    | 1Nm  |
| Diameter/Dimension   | M18  |

#### Test/Approvals

|                       |                                                |
|-----------------------|------------------------------------------------|
| Approvals             | CE cULus                                       |
| EMC compatibility     | EN 60947-5-2                                   |
| Shocks and vibrations | Vibration IEC 60068-2-6 / Shock IEC 60068-2-27 |

#### Accessories

|                      |                           |
|----------------------|---------------------------|
| Supplied Accessories | nuts M18 x 1, screwdriver |
|----------------------|---------------------------|

#### Generical Data

|                       |                                  |
|-----------------------|----------------------------------|
| Dimensions            | M18 x 1 /L =78mm                 |
| Operating Temperature | - 25°C...+ 70°C (Without freeze) |
| Mechanical Protection | IP67                             |

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